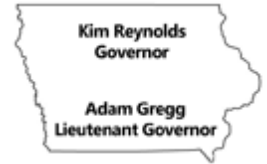




HEADQUARTERS IOWA NATIONAL GUARD
Office of the Adjutant General
Camp Dodge Joint Maneuver Training Center
7105 NW 70th Avenue
Johnston, Iowa 50131-1824



Date: 11/14/2017

To: All Bidders

Subject: State of Iowa Request for Quote RFQ C185820078 Fire Systems Engineering

ADDENDUM # 1
Questions & Answers

The State of Iowa received the following questions and requests for clarification by the due date and time listed in the Request for Quote.

Question 1: Is there a specific certification for "Fire Professional Engineer" that you are requiring for this project?

Answer 1: SFPE is the licensing body for fire protection engineering professionals. The State Fire Marshal may not require this classification it is up to his discretion as the AHJ (Authority Having Jurisdiction.).

Question 2: Is the intent not to replace panels.

Answer 2: Replace panels only if necessary to be able to network. Please note the cybersecurity attachment so the network must be wired. Must include a certificate of networkiness.

Question 3: Does the Iowa National Guard have a Duct Bank System.

Answer 3: No, but we do have dark fiber. Contractors can use building automation system which has buried fiber.

Question 4: Is the intention to use existing network?

Answer 4: Yes, National Guard IT (G6) will need to be involved in the process.

Question 5: Two main locations are listed the UL Central Station and the guard station?

Answer 5: There are two locations that will monitor alarms only. There will be no centralized command and control for now.

Question 6: Implement command and control?

Answer 6: No

Question 7: Are there guard shack space limitations?

Answer 7: No

Question 8: Will contract administration be included

Answer 8: It will be a separate contract

Question 9: Is there a construction cost estimate?

Answer 9: No, the Architect / Engineer will be required to provide a construction cost estimate

Question 10: Will a mass notification system be required?

Answer 10: No, the current mass notification system will need to be integrated into the proposed solution. It is likely that in building notifications will be required for 4 buildings, possibly more.

Question 11: Is there documentation of fire testing?

Answer 11: Yes

Question 12: Are you looking at replacing devices or front end?

Answer 12: Front end first followed by any devices necessary to obtain an addressable system

Question 13: What level of detail are you looking for? For example notification that it is a pull station vs a smoke detector in a building or just that there is an alarm at the building.

Answer 13: Building only for now, easily expandable to addressable. Buildings currently with addressable systems should be integrated into the front end on the first pass.

Question 14: Do some of the buildings have dialers?

Answer 14: Yes

Question 15: Is the goal to network and get of the dialers?

Answer 15: Yes

Question 16: Is there dedicated fiber to JFHQ?

Answer 16: Yes, several strands described by Chief Marlan Poage during the walkthrough

Question 17: Does Camp Dodge have a responding fire department?

Answer 17: No, the on complex fire personnel only respond to live fire, ammunition related needs. The responding fire department is the Johnston fire department.

Question 18: Any special hazards in the buildings (electrical, gas vapor, ordinance)?

Answer 18: Paint shop, Vehicle Service Buildings (Solvents), Armories have weapons storage vaults.

Question 19: If buildings do not have alarms is it safe to assume they do not need alarms?

Answer 19: No, Occupancy and NFPA code should be followed to determine protection needed.

Question 20: Exhibit A and Exhibit A.1 have slightly different locations. Do you want us to bid against Exhibit A only?

Answer 20: Bid list in Exhibit A

Question 21: Can we get a list of buildings by name and occupancy?

Answer 21: See Addendum #1 Site Map with Comments

Question 22: Is there a schedule for the design project?

Answer 22: To be developed

Question 23: Is there an anticipated number of meetings associated with the project.

Answer 23: Bi-weekly

Question 24: Please confirm that buildings listed in Exhibit A that do not have a panel listed, and do not show devices or appliances in the second spreadsheet (Exhibit A.1), are to have a design for a local building fire alarm system as a part of this contract.

Answer 24: To be designed

Question 25: Please confirm that buildings on the Exhibit A spreadsheet that do not have a panel listed, but show devices or appliances in the second spreadsheet (Exhibit A.1) are assumed to have a panel in another building for supervision, and will not need a new panel or additional local building system evaluation.

Answer 25: No assumption of another panel, design criteria

Question 26: Please confirm that the only DOD document applying to this work is UFC 4-010-06 (Exhibit B).

Answer 26: There may be other DOD rules that apply

Question 27: Please provide a number of buildings that are anticipated to be converted to addressable systems.

Answer 27: To be determined by engineer according to NFPA, State and local code requirements, engineer must work with the State Fire marshal and local AHJ to make that determination.

Question 28: Please confirm that only a single design document will be provided even though phases may be included.

Answer 28: Single design document without construction related documents

Question 29: Several panel type discrepancies were noted on the Exhibit A list during the Pre-Bid walkthrough.

Will an updated list of buildings and fire alarm panel types be provided in the Addendum, including identification of addressable and zoned systems?

Answer 29: No, final list will be field verified by engineer

Question 30: Please identify the extent of integration required for building monitoring through the BAS. Will it just be general alarm/trouble/supervisory or is addressable point notification required?

Answer 30: Integration will include alarming zones or entire buildings via turning a room red for example on the BAS system. Trouble and supervisory are not necessary.

Question 31: Is the intent to use a VLAN connection hosted by G6 for all communication between panels or will other methods be required/allowed?

Answer 31: To be determined by engineer in coordination with G6

Question 32: The RFQ states “the graphical interface will have the ability to display alarms and troubles on building CAD backgrounds *and* transmit by phone and cellular connection, alarm and monitoring data to a UL approved monitoring company”; however, it was stated during the pre-bid conference that the graphical interface will be for display purposes only. Please provide clarity on the intended use of the graphical interface to be designed.

Answer 32: RFQ statement is correct, command and control through a UL approved system not necessary

Question 33: Is it the intent of this project to eliminate each individual building’s fire alarm central station monitoring connection and provide a single point in which all campus fire alarm signals are sent to the central station?

Answer 33: Yes

Question 34: What are the governing criteria for the design?

- a. The Scope of Work indicates the new system shall meet all requirements of NFPA 72, AHJ and the State Fire Marshal’s office. Please define what organization or individual is the AHJ and subsequently what criteria is applicable.
- b. For example, Army National Guard DG 415-5, *General Facilities Information Design Guide*, dated 18 May 2006, in paragraph 1-2, discusses the role of the Federal Government and Federal funds to the States. Additionally, paragraph 1-3.16, *Fire Protection*, second bullet, indicates facilities should, “...comply with the requirements for all building space types presented in the *International Building Code* and National Fire Protection Association (NFPA) standards and with criteria presented in UFC 3-600- 01, *Fire Protection Engineering for Facilities*. Also address State and local requirements that are more stringent than these sources.” Similarly, paragraph 2-1 indicates compliance with UFC 4-010-01, *DoD Minimum Antiterrorism Standards for Buildings*, is required; and paragraph 2-2.1 indicates a mass notification system is required. Note that in accordance with paragraph 2-1, unless the State of Iowa AT/FP officer recommends to the Adjutant General a lesser level of protection than that normally provided by UFC 4-010-01, in-building mass notification is required. Is this project, or the subsequent fire alarm system installation projects, subject to Federal regulations other than UFC 4-010-06, *Cybersecurity of Facility-Related Control Systems*?
- c. If this and the related future projects are not subject to Federal regulations, are they subject to Local regulations enacted by the City Council of the City of Johnston, Iowa?
- d. If this and the related future projects are not subject to Federal or Local regulations, are they subject to State regulations enacted by the Iowa State Building Code Advisory Council?

Answer 34: Engineer in conjunction with the State Fire Marshal, NFPA, State, Local, DOD, DOE and Army facility codes is to determine the required fire detection system needs of each building.

Question 35: Please clarify the Scope of Work statement, "...contemplate including new addressable alarm systems into the buildings on the list that do not have addressable systems."

- a. Shall the scope include a fee for a design that only networks the existing addressable systems yet is expandable assuming the buildings on the list that do not have addressable systems will one day have addressable systems?
- b. Shall the scope include a fee for a design of an addressable system for each of the buildings on the list that do not have an addressable system, in addition to the fee for the design of the expandable network of the existing addressable systems?

Answer 35: Overall design of a fire protection system on Camp Dodge that meets all requirements outlined in Answer 34. Design a Fire Alarm Front end that is graphical and can be a central station for dialing a UL approved monitoring station. Design adaptation of current systems into new system for now. Recommend design criteria to convert or install addressable systems in all relevant buildings on Camp Dodge in the future.

Question 36: Based on the governing criteria for the project, is the licensed Fire Protection Engineer required to be licensed in the State of Iowa?

Answer 36: Yes

Question 37: Are the inspection, test, and maintenance records for the fire alarm systems included in the Scope of Work available for review to the selected engineering firm?

Answer 37: Yes

Question 38: Is a list of the buildings in the Scope of Work available by addendum for development of the RFQ response... including their real property data including square footage, occupancy classification, use, and whether or not they are sprinklered. If not available by addendum, is the engineering design to include fee and scope by the engineering firm, to collect this information.

Answer 38: Fee and scope should include field verification

Question 39: Is an updated Exhibits A and A.1 available by addendum for the development of the RFQ response ...including all of the facilities that will be included in the Scope of Work such as, but not limited to, building JFHQ (A-1), W-12, S-29, A-42, etc. If not available by addendum, is the engineering design to include fee and scope by the engineering firm, to collect this information.

Answer 39: Fee and scope should include field verification

Question 40: The Scope of Work indicates the design will network the existing addressable systems into a graphical front end located in building QHP-1. Is it preferred to locate the "front end" in building JFHQ and to provide a "graphic display" only in QHP-1?

- a. If yes, will the front end require an additional graphic display?
- b. Are graphic displays required anywhere else in the Camp Dodge facilities?
- c. Will the front-end in the JFHQ building be the only locations that will require "editing" or "command and control" or "response" capabilities"?

Answer 40:

- a. Two graphical displays should be included
- b. Not now
- c. No command and control in any displays

Question 41: Will the graphic display(s) in QHP-1 or other locations be for providing information only and will only be required to have "viewing" permissions?

Answer 41: Yes

Question 42: Are any/all of the graphical interfaces required to display supervisory signals in addition to alarm and trouble signals?

Answer 42: No, however most have this capability

Question 43: Are phone and cellular connection the only available options for transmitting signals to a UL-certificated remote station alarm system company?

Answer 43: The only options that I am currently aware of

Question 44: Is the new networked fire alarm system required to relay information to the existing building automation system (BAS); or may the individual fire alarm control panels relay the information to the BAS directly without first going through the new networked fire alarm system?

a. May a combination of methods be utilized?

Answer 44: Any method of communication to the BAS system will be allowed with permission of G6

Question 45: Where does the existing BAS provide a user interface?

Answer 45: Question a little vague, there is a user interface in the automation server and additionally the Niagara Tridium JACE

Question 46: Will a new user interfaces be required in new locations?

Answer 46: Depends on the methodology chosen to transport signal to BAS

Question 47: Is it acceptable to submit a network solution that does not utilize the existing copper or fiber and that is not transmitted through existing (or new) servers?

b. If so, would such a network be relieved from compliance with UFC 4-010-06?

c. Is there an opportunity to use radio transmitters for transferring information to a central fire alarm panel location before being networked via the fire alarm panel to the BAS?

Answer 47: No RF transmission is allowed by G6. All network connections will comply with cybersecurity requirements.

Question 48: What is the format of all the floor plans within the scope of work: AutoCAD, REVIT, Bentley, PDF, TIFF, etc?

Answer 48: Formats of prints are widely variable, however most have been scanned and available electronically.

Question 49: Is it a long-term goal for all systems at the Camp to be of one manufacturer?

Answer 49: No, compatible with several manufactures

Question 50: Is it a long-term goal for all future projects to be competitively bid by multiple manufacturers?

Answer 50: Yes

Question 51: Is it a long-term goal for all future projects to be competitively bid by at least multiple distributors of the same manufacturer?

Answer 51: See answer 50.

Question 52: Is there a Civil or Site drawing of the fiber network that indicates where the existing dark fiber is located and/or where existing pathways exist that would facilitate the pulling of new copper or fiber?

Answer 52: Yes

Question 53: Some buildings currently do not have any fire alarm system installed. Can we assume that if a fire alarm system is not installed in a building that we do not need to design a new system for that building?

Answer 53: No, design should include all buildings unless State Fire Marshal, AHJ et. al. approve deletion of building from design

Question 54: At the Pre-bid meeting it was noted that the monitoring could be accomplished via the building automation system. In order for the fire alarm system to be UL listed with one central dialer it will need a dedicated network. Many buildings have fiber to them now. Can we assume there are spare fiber strands in the cables? For any buildings that do not have fiber to them, should we plan to have new fiber cables installed for the fire alarm network?

Answer 54: Monitoring must be via the fire alarm system connected to a UL approved monitoring station. The BAS system will be informational only. Communication requirements including fiber or Ethernet and the availability will be developed by the engineer on this project.

Question 55: Can you confirm that cost estimating will be required for the project? Will cost estimating be required at 30%, 60% and 100% completion of the design documents?

Answer 55: Construction cost estimate for the entire project at conclusion of design.

Question 56: Is any qualifications material required to be submitted for the firm or the FPE?

Answer 56: No

Question 57: Are test reports available for each building with a fire alarm panel? If so, can 2-3 reports be included in an addendum to help us understand what is included in the test reports?

Answer 57: Standard NFPA test and inspect reports available for buildings with fire alarm systems installed.

Request for Quote Time Line:

- Questions due from Contractors: 11/10/2017
- Responses via addendum 11/14/2017
- Bids Due on 11/28/2017 at 2 PM Local Time